

FIG.1

SYSTEM CONFIGURATION

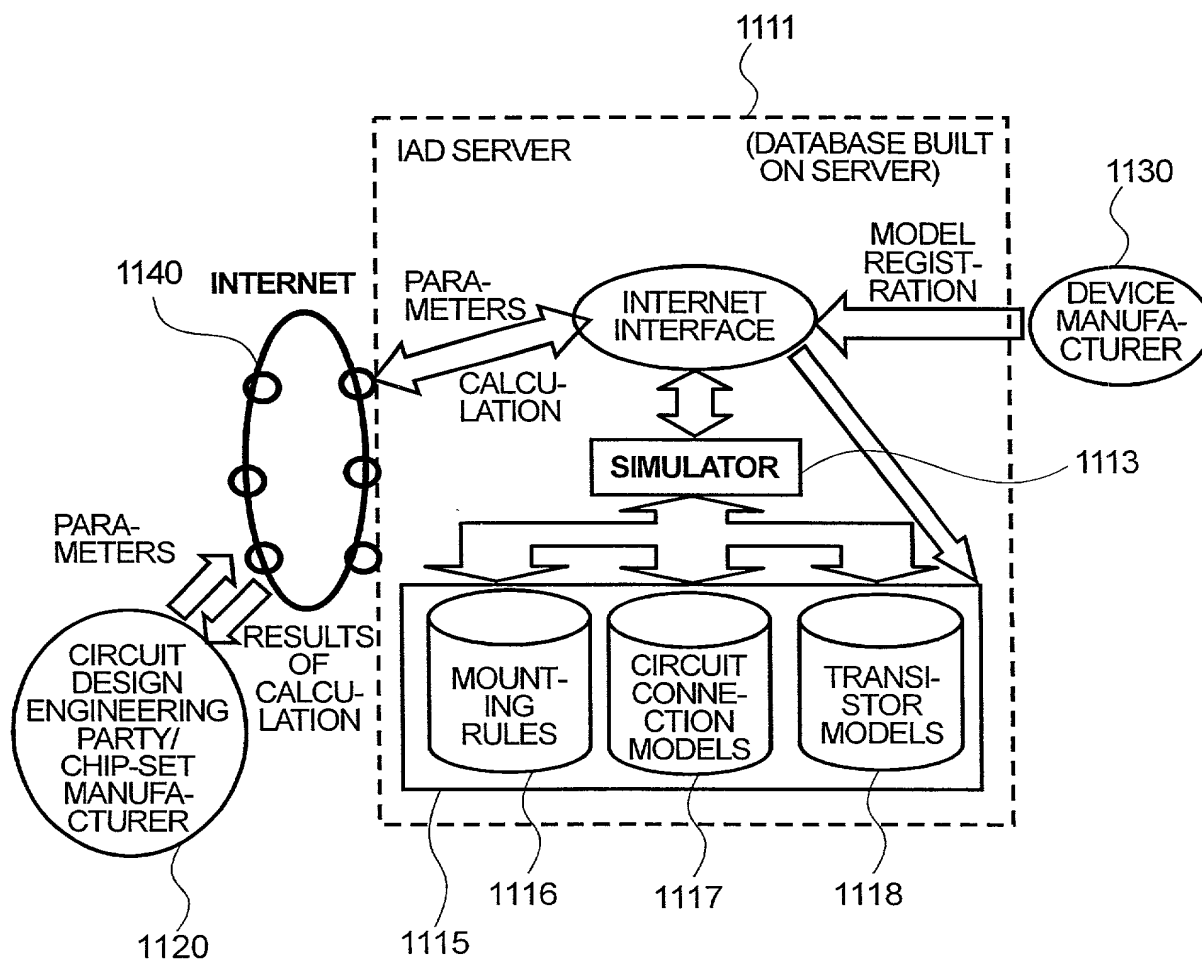


FIG.3

EXAMPLE OF ENTRY SCREEN

Welcome to Web PCB Simulation

Last Modified at December 13, 2000

- Circuits Simulation on WEB
- SPICE - JavaScript / CGI connection technology
- SPICE transistor model available
- IBIS also available
- Transmission line analysis
- Signal Integrity analysis
- EMC simulation

Please Select the Circuit model

1. Single Transmission Line
2. Differential Signal Lines
3. Bus Lines
4. Crosstalk
5. EMC Noise
6. Switching Noise
7. others

FIG.4

EXAMPLE OF USER REGISTRATION

Welcome to
Web PCB Simulation

Last Modified at December 13, 2000

- Circuits Simulation on WEB
- SPICE - Javascript / CGI connection technology
- SPICE transistor model available
- IBIS also available
- Transmission line analysis
- Signal Integrity analysis
- EMC simulation

Please Select the Circuit model

1. Single Transmission Line
2. Differential Signal Lines
3. Bus Lines
4. Crosstalk
5. EMC Noise
6. Switching Noise
7. others

Input user name and password

Enter a user name for Barong.

User name:

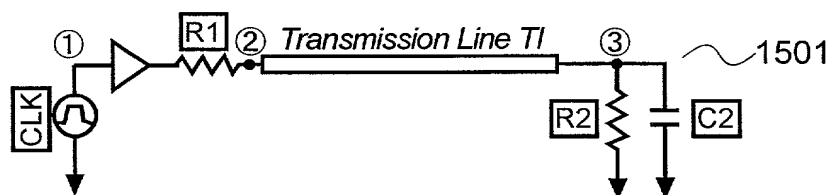
Password:

1405

1300

FIG.5
EXAMPLE OF CIRCUIT
PARAMETER INPUT SCREEN

Web SPICE - Spider -

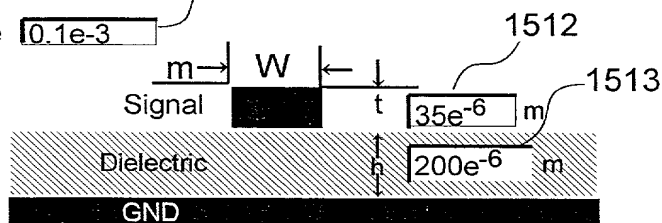


Set the parameters below.

- Clock **CLK** MHz ~ 1502
- Transeiver **TX** ~ 1503
- Resistor **R1** Ω ~ 1504
- Resistor **R2** Ω ~ 1505
- Capasotpr **C2** F ~ 1506
- Transmission Line

Line Type : ☒ Microstrip Line ~ 1511

Line length mm ~ 1516



Dielectric Constant ϵ_r ~ 1514
Permeability μ_r ~ 1515

GO!(SPICE) ~ 1520

1500

FIG.6

EXAMPLE OF CALCULATION STATUS SCREEN

SPICE extractor VIA WEB

STATUS

```
@ ##### @
@ ## Web-SPICE / WS START : SHELL VERSION = V02-05-01 ## @
@ ##### @
```

```
@ # circuit : [ spice1.alc ]
@ # list    : [ spice1.lst ]
```

```
ALCG50I: SPICE/WS START
ALCG51I: SPICE/WS NORMALLY ENDED
```

```
ALCG40I: EXECUTION LIST OUTPUT TO spice1.lst
```

```
SPICE wave file genalation :
/ usr / local / spicebin / wav2gif spice1.wav spice1.GIF
GIF file genelation :
```

```
RESULT Graph ~~~~~1601
RESULT DATA ~~~~~1602
```

1600

FIG.7

EXAMPLE OF CALCULATION RESULT SCREEN
DISPLAYED IN THE COURSE OF CALCULATION

Now Calculation !!

Calculation is now in progress.
Wait for a while, and then reload this page.

Figure 1 consists of 15 subplots, labeled (a) through (o), each showing a different physiological parameter over a 10-minute period. The x-axis for all plots is 'Time (min)' ranging from 0 to 10. The y-axis represents the parameter value. The parameters are: (a) HR (beats/min), (b) BP (mmHg), (c) SV (ml), (d) CO (l/min), (e) SVR (mmHg/l/min), (f) PVR (mmHg/l/min), (g) P (mmHg), (h) P (mmHg), (i) P (mmHg), (j) P (mmHg), (k) P (mmHg), (l) P (mmHg), (m) P (mmHg), (n) P (mmHg), and (o) P (mmHg). The plots show various trends, including increases, decreases, and stable values over time.

FIG.8

EXAMPLE OF CALCULATION RESULT
SCREEN DISPLAYED AT THE END OF CALCULATION

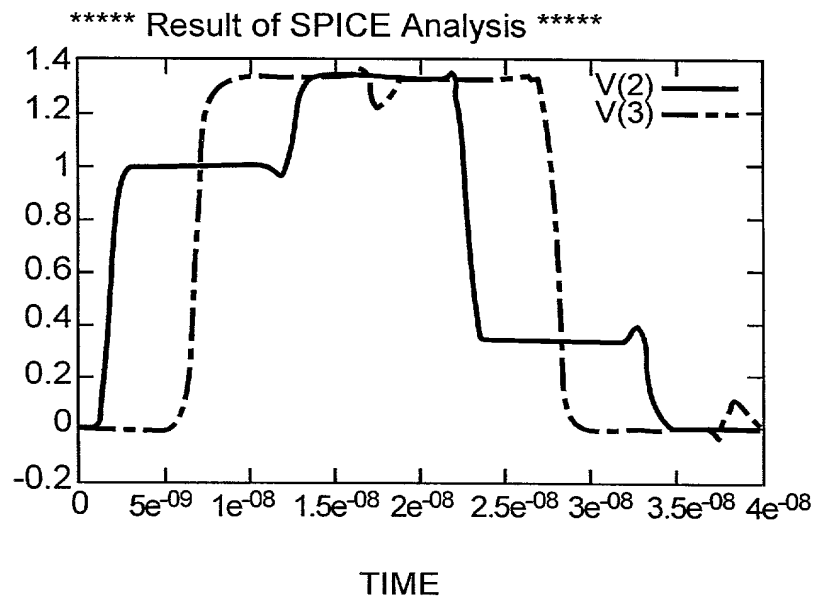


FIG.9

CONVENTIONAL SYSTEM CONFIGURATION

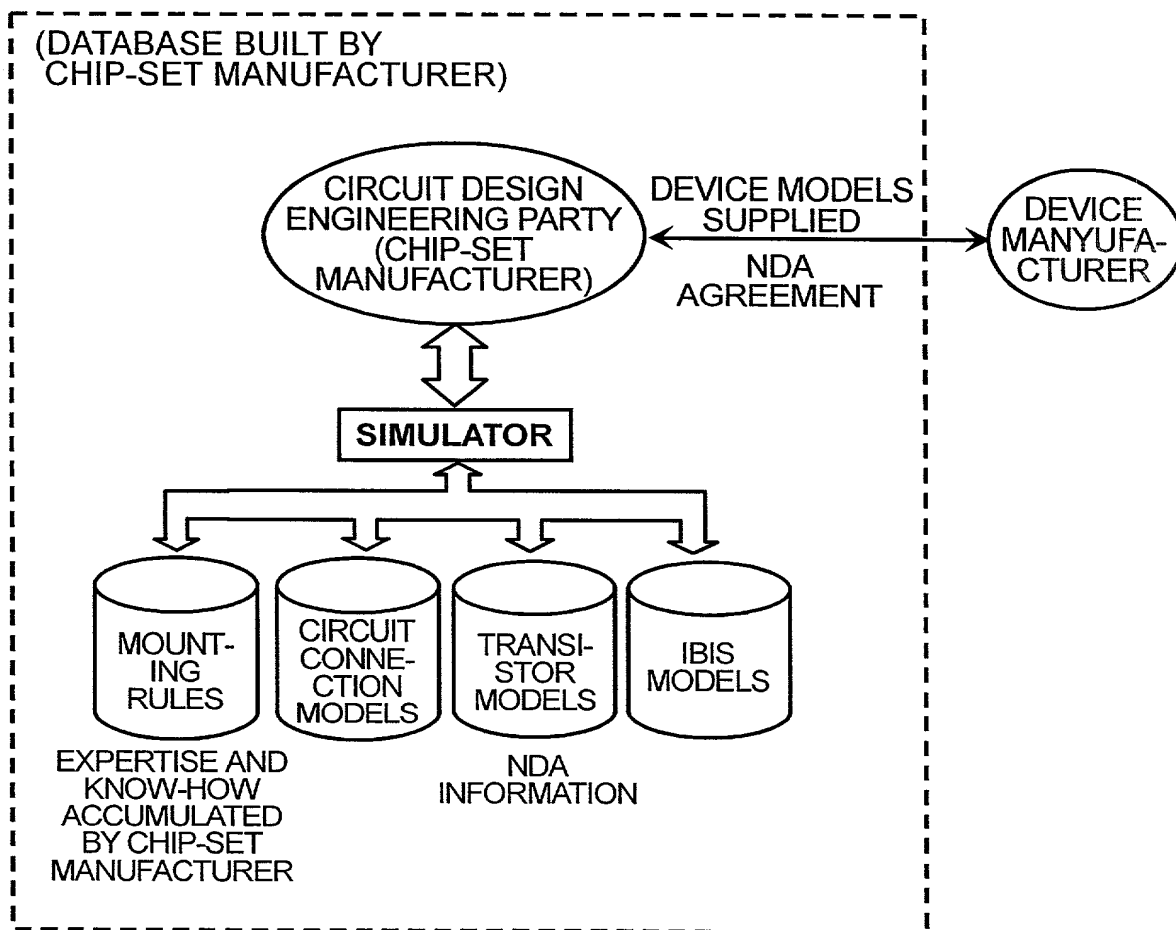
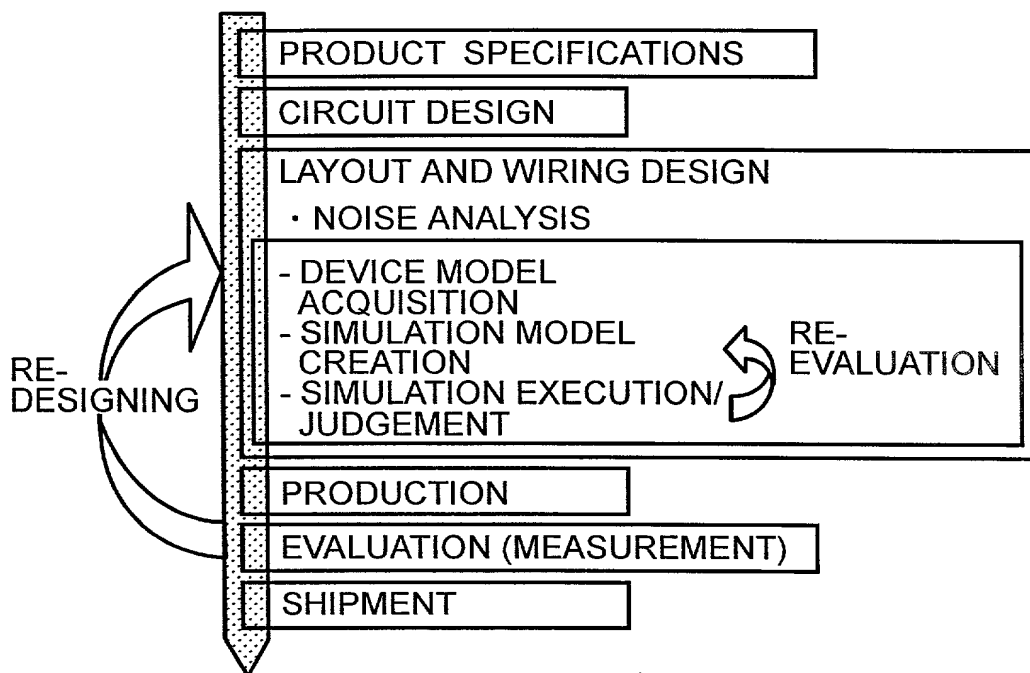
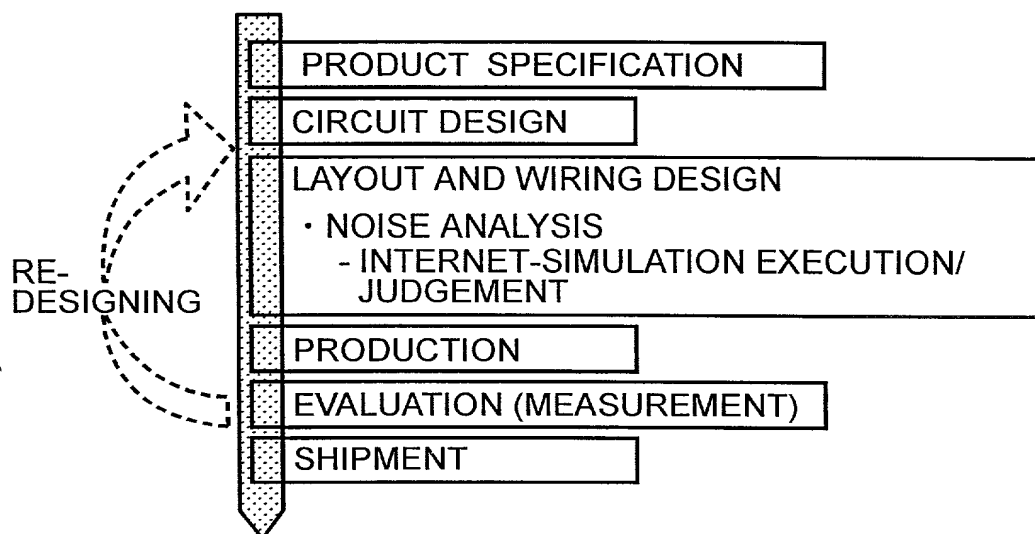


FIG.10

DESIGN FLOW AT CHIP-SET MANUFACTURER
(CIRCUIT DESIGN ENGINEERING PARTY)



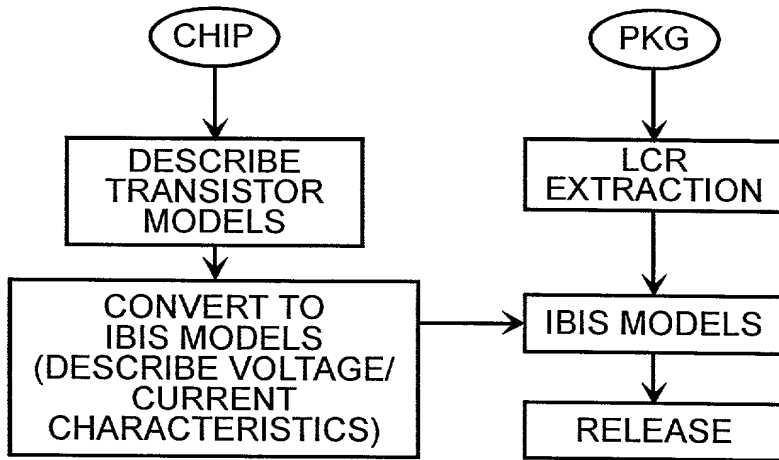
(a) CONVENTIONAL DESIGN METHOD



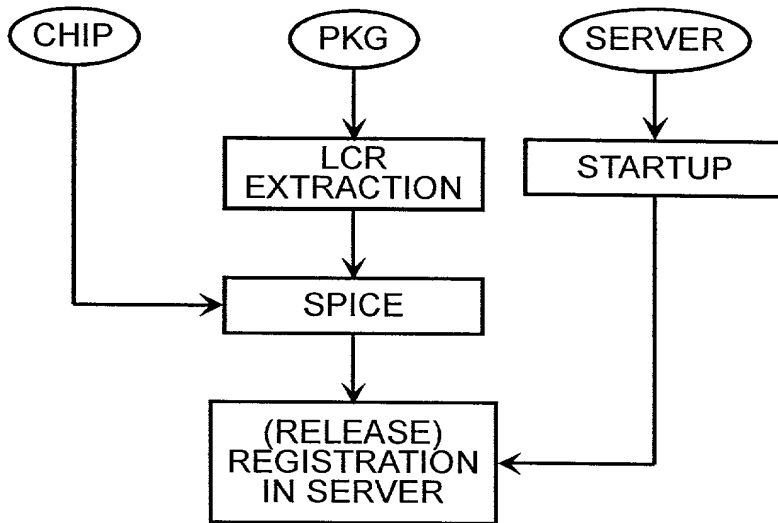
(b) DESIGN METHOD ACCORDING TO THE
PRESENT INVENTION

FIG.11

MODEL PRODUCING FLOW AT MODEL SUPPLIER



(a) CONVENTIONAL DESIGN METHOD



(b) DESIGN METHOD ACCORDING TO THE PRESENT INVENTION

FIG.12

SYSTEM CONFIGURATION IN A SECOND PREFERRED EMBODIMENT

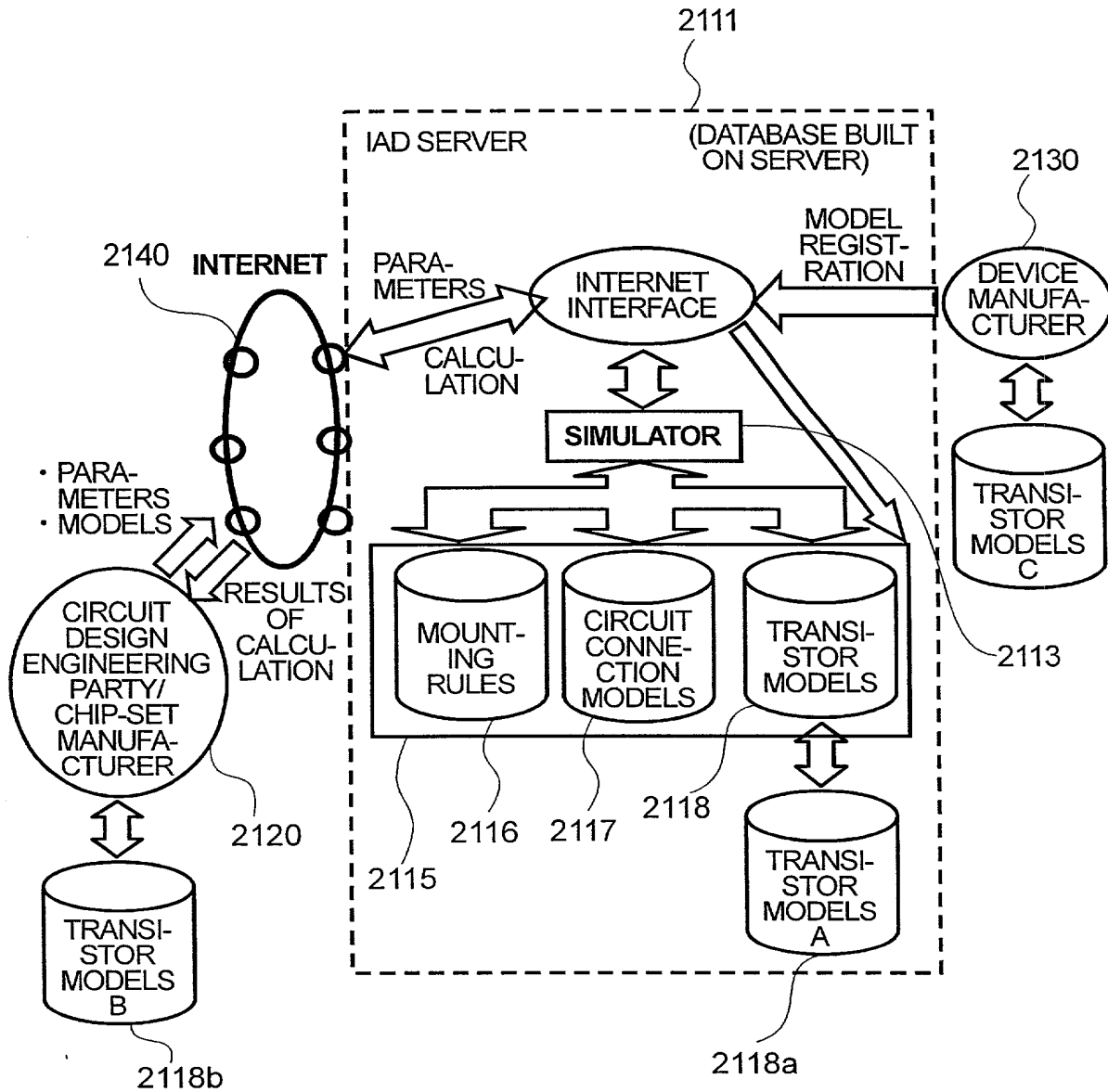
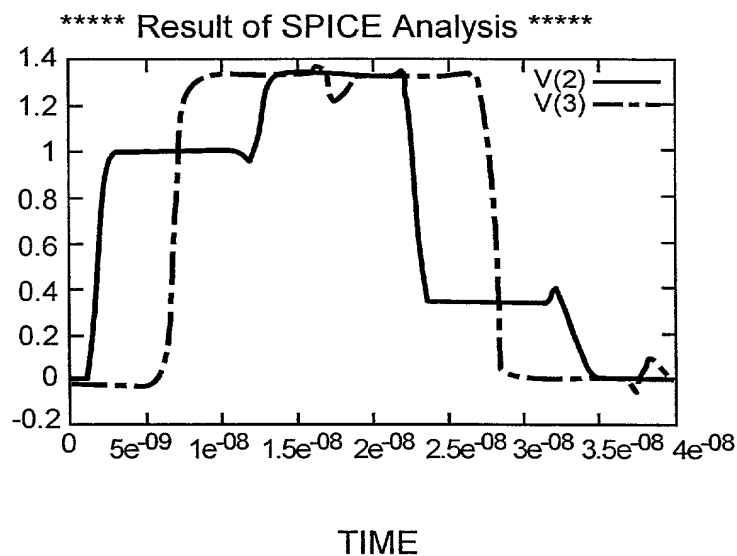


FIG.14

EXAMPLE OF CALCULATION RESULT AND
DEVICE INFORMATION SCREEN




You have selected the following device(s):

• \$H7709A, manufactured by H Ltd.

Quantity: 1 pc

Which course of action do you take?

- ☐ Call a sales engineer.
 - ☐ Check the price and delivery period.
 - ☐ Download data sheets.
-
- ☐ Download circuit diagrams. File format: ☐ ABC format
☐ XYZ format
 - ☐ Send circuit diagram data to a circuit boards manufacturer for requesting preparation of circuit boards.
Circuit board manufacturer: 
 - ☐ Download CAD information regarding the device.